ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	ITERATIVE CT RECONSTRUCTION METHOD USING MULTI-MODAL EDGE INFORMATION

Application Number :

Confirmation Number:

First Named Applicant: Qi Zhao

Attorney Docket Number: 134666-1

Art Unit:

Examiner:

Search string: (5909476 or 6002739 or 20030156684).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
(init)	1	5909476	1999-06-01	Cheng et al.		378	4
(init)	2	6002739	1999-12-14	Heumann		378	8

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
(init)	1	20030156684	2003-08-21	Fessler	A1	378	210

Signature

Examiner Name	Date
(signature)	6/7/05

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

ATTY DOCKET NO. 134666-1		SERIAL NO. 10/707,031
Qi Zhao		
FILING 11/17/2003		GROUP N/A

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
✓	1	WO 02/067201 A1	29.08.2002	Europe	—	—	✓	

OTHER DOCUMENTS   *(Including Author, Title, Date, Pertinent Pages, Etc.)*

✓	2	J. A. Browne, J. M. Boone, and T. J. Homes, "Maximum-likelihood x-ray computed-tomography finite-beamwidth considerations;" Applied Optics, Vol. 34, No. 23, August 10, 1995; pages 5199 - 5207.
✓	3	B. De Man, J. Nuyts, P. Dupont, G. Marchal, and P. Suetens, "An Iterative Maximum-Likelihood Polychromatic Algorithm for CT;" IEEE Transactions on Medical Imaging, Vol. 20, No. 10, October 2001; pages 999 - 1008.

EXAMINER	DATE CONSIDERED 6/7/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OTHER DOCUMENTS   *(Including Author, Title, Date, Pertinent Pages, Etc.)*

(initialed)		4	B. De Man, J. ohan Nuyts, and P. Suetens; "IMPACT: Iterative Maximum-likelihood Polychromatic Algorithm for CT"
(initialed)		5	Bruno De Man; Iterative Reconstruction for Reduction of Metal Artifacts in Computed Tomography; 2001

EXAMINER	DATE CONSIDERED 6/7/05

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Form PTO-A820		ATTY DOCKET NO. 134666-1		SERIAL NO. 10/707,031

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11/17/2003	N/A

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

Examiner			
✓	6		I. A. Elbakri and J. A. Fessler; "Statistical Image Reconstruction for Polyenergetic X-Ray Computed Tomography;" IEEE Transactions on Medical Imaging, Vol. 21, No. 2, February 2002; pages 89 - 99.
✓	7		I. A. Elbakri and J. A. Fessler; "Segmentation-Free Statistical Image Reconstruction for Polyenergetic X-Ray Computed Tomography;" IEEE; 2002; pages 828 - 831.

EXAMINER	DATE CONSIDERED
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OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

(initials)	8	D.J. Heuscher and M. Vembar; "Reduced partial volume artifacts using spiral computed tomography and an integrating interpolator;" Assoc. Phys. Med, Med. Phys. 26 (2), February 1999; pages 276 - 286.
(initials)	9	Hee-Joung Kim, Barry R. Zeeberg, Richard C. Reba; "Grey and White Matter Spect Neuroimaging: Iterative Reconstruction Using a High Resolution Anatomical Image to Correct for 3-D Detector Response, Attenuation, and Scatter;" IEEE; 1993; pages 1002 - 1004

EXAMINER *(signature)*	DATE CONSIDERED 6/7/05

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		Qi Zhao			
		FILING 11/17/2003		GROUP N/A	

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO

OTHER DOCUMENTS   *(Including Author, Title, Date, Pertinent Pages, Etc.)*

[initials]	10	J. Nuyts, B. De Man, P. Dupont, M. Defrise, P. Suetens, and L. Mortelmans; "Iterative reconstruction for helical CT: a simulation study;" Phs. Med. Biol. 43; 1998; pages 729 - 737.	

EXAMINER *[signature]*	DATE CONSIDERED 9/7/05

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